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MWK - 13 Dec 61

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5 December 1961

Dear Sir:

Enclosed herewith are three copies of our Progress
Report #5, covering the period from 4 November through
30 November 1961.

Sincerely yours,

25X1A

RMN/jb

Enclosures

Declass Review by NIMA/DOD

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5 December 1961

Progress Report #5

Reporting Period: 4 November through 30 November 1961

I Work Completed

A. In Task 1.2, techniques were under continuous development and refinement.

B. In Task 2.2, glass plate processing was delaying, and examination of the photography indicated that some of the glass plate [] photographs 25X1A did not show all the details desired for measurement, being obscured by shadows. Arrangements have been made to rephotograph the subject area at the earliest opportunity from three stations. [] plates will be used (the contractor's 25X1A technical representative supplied us with a new stock).

25X1A The [] provided us with basic dimensional data of the subject area in the form of selected plan and elevation plats showing exterior construction details. Shapes, dimensions, and angles were annotated on the drawings. The details presented are far in excess of what can be used. The effort of this company is an outstanding example of cooperation. They prepared the data especially for us, expending three days of a draftsman's time plus the necessary engineering time.

C. In Sub-Task 2.3.2, the field survey data has been reduced and checked. The computation procedure has been programmed and numerical examples have been provided to check out the program. Although some photographs could be used for coordinate readout and computation now, they are

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being held until the rerun is completed so that all selected points and photographs can be integrated for efficient and appropriate comparison of data.

D. Relative to Tasks 3.1 and 3.2, a telephone conversation with the contractor's technical representative indicated that some subject areas in the outline were considered too advanced for an elementary manual. The publication, therefore, will be simplified in technical content.

The part-time educational specialists have continued to program the procedures as they have been developed.

II Work Anticipated for the Month of December

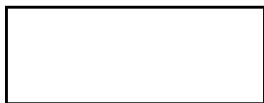
A. Work in Task 1.2 will continue.

B. In Task 2.2, necessary reruns with the photo theodolite will be made.

C. In Task 2.3.2, it is anticipated that the coordinate readout and computed data reduction will be completed.

D. In Tasks 3.1 and 3.2, a continuing effort will be expended to complete a first draft of the manual as soon as possible.

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[redacted] called re the fact that
[redacted] didn't have the money to continue
work on the contract with [redacted] for data
reduction and the use of a Mann Comparator
[redacted] told him that was his
problem. [redacted] will pay [redacted] in advance
to enable [redacted] to hold on to the Comparator
long enough to finish the job.

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6 November 1961

Progress Report #4

Reporting Period: 1 October through 3 November 1961

*Reviewed
20 Nov 61*

I Work Completed

A. In Task 1.2, techniques were under continuous development and refinement.

B. In Task 2.2, experience was gained in using the photo theodolite equipment and in obtaining suitable photography with both the [] (Ortho Topo Base) and [] (IV/N emulsion) glass plate film. A very small experimental, portable, infrared radiation meter (short wavelength) was borrowed and some experience was obtained in correlating meter readings with the [] exposures. Meter readings and exposure were obtained through the same 87C and 88A filters. Additional experiments would be necessary to provide reliable information relating meter data to exposure time in haze penetration photography, under varying lighting conditions.

During the second week of the month, we received word that the [] [] would cooperate in providing the necessary exterior dimensional data of their [] plant. This plant was our first choice for this work.

Final preparations were made, and the field trip took place during the week of 30 October - 3 November. Both photo theodolite and calibrated miniature camera photography were exposed at three sites; two turning points were placed at the opposite ends of a measured base at each site. Photography from three

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lenses (35mm, 58mm, and 135mm) was exposed in the miniature camera on []

STATINTL IR and on a [] stable-base film. Photo theodolite photography at the two

STATINTL shorter distance sites was on [] plates, while [] IR plates were used

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at the two-mile object distance site.

C. Verbal approval was received from the contractor to employ part-time

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STATINTL specialists in education and mathematics and to use the services of []

[] for glass plate coordinate readout and computation.

D. Relative to Task 3.1, part-time educational specialists have worked on programming some of the procedural techniques and have contributed some concepts to manual design.

II Work Anticipated for the Month of November

A. Work in Task 1.2 will continue.

B. In Task 2.3.1, field data reduction techniques of selected control site photography will be performed.

C. In Task 2.3.2, plates will be processed and images selected for coordinate readout and computation by [] The readout and

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computation should be finished before the end of the month.

D. In Task 3.1 and 3.2, considerable effort will be expended toward preparing and writing the manual. The goal is to have a first draft available for contractor examination early in December. At this time, some decisions as to project boundaries should be established at a conference.

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1 October 1961

*Received 9 Oct 61
m w k***Progress Report #3****Reporting Period: 1 September to 30 September 1961****I Work Completed**

A. In Task 1.2, techniques are under a continuous stage of development and refinement.

B. In Task 2.1, a variety of photographs have been obtained. Ensuing work will be confined to specific problems which may have been overlooked in the original plan.

C. In Task 2.2, two alternate subjects were investigated, and letters requesting cooperation of the companies involved sent out. As yet, no response has been received from any of our written requests. Additional alternate sites are being investigated.

D. Requests for approval to employ specific consultants and part-time employees were sent to the contracting officer. Written approval has not been received as yet.

E. In Task 2.2, most of the control site photographic and survey equipment has been received. The remainder will be delivered at a later date. Work has progressed on becoming familiar with the equipment and on the purchase of necessary photographic and survey supplies. A photographic plan for the control site photography has been prepared.

F. In Task 3.1, a manual outline, indicating basic content, has been prepared. Three copies will be sent to the technical representative shortly for examination and suggested changes.

II Work Anticipated for the Month of October

A. Work in Task 1.2 will continue.

B. In Task 2.2, obtaining the cooperation of a suitable subject is of prime concern because of the season. The aid offered by the contractor's special personnel will be utilized to obtain this cooperation. Work will continue to become proficient in the use of the photographic survey equipment.

C. Task 2.3.1 will continue toward preparing basic field procedures.

D. Relative to Task 3.1, it is anticipated that the educational consultants will be available this month. Additional refinements on manual content

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Progress Report #2

5 September 1961

Reporting Period: 1 August - 31 August 1961

1. Work Completed

A. Under Task 1.1, selected illustrations from the list of publications which could not be obtained on loan from the Library of Congress were photographed at the Library by one of [] personnel. This work produced 300 25X1A photographs. During development, the negatives were reversed, and slides were made for office projection and study.

Additional libraries, (USDA, USC & GS, USCS, and US Army) were visited and searched for suitable information.

B. Some techniques not found in the information search have been developed under Task 1.2, applying principles of projective and descriptive geometry.

C. On Task 2.1, additional miniature photographs of exterior and interior scenes have been obtained. Emphasis has been on photographing targets of opportunity.

D. On Task 2.2, the selected controlled photo field sites and subject were visited and proved to be satisfactory to the contractor's technical representative. However, when an attempt was made to obtain permission of the company to supply exterior dimensional data of their buildings and facilities, they were reluctant to cooperate.

Although negotiations are continuing, alternate subjects and sites are being investigated. Therefore, the control photography will not be obtained as soon as planned. It must wait until the cooperation of a suitable subject can be obtained.

E. Under Task 2.3.1, work was started on preparing field mensuration technique procedures in rough form.

F. On Task 3.1, work continued toward developing various manual approaches. It is planned to allow [] part-time employees in educational psychology and programming to contribute their ideas before submitting various alternatives to the contractor for discussion and decision. It is expected that a meeting will be requested for some time in October.

2. Work Anticipated for the Month of September

A. A continuing effort will be expended on Task 1.2.

B. On Task 2.2, every effort will be made to establish the cooperation of a satisfactory subject so that the control site photography can be obtained as early as possible. It is expected that the photographic equipment will be delivered during this month.

C. Relative to Task 2.3.1, work will continue on preparing basic field data reduction procedures.

D. Task 3.1 will continue toward the development of various approaches to manual design.